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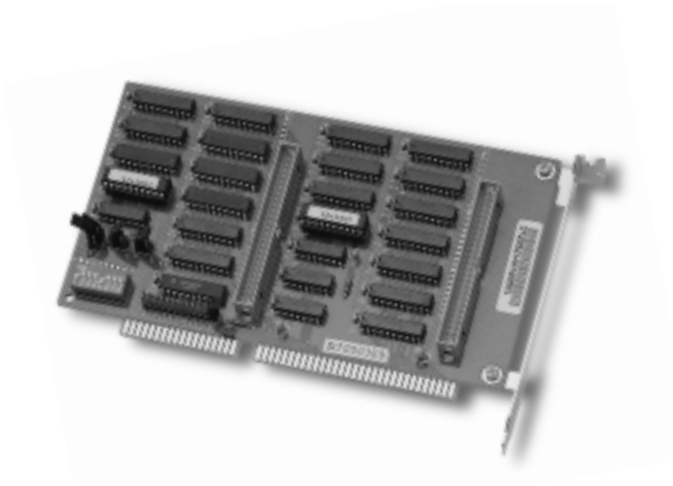
AX5214H

48 Bit DIO Board



Features

- Low cost IBM™ PC/AT compatible DIO board
- 48 lines, each group consists of 24 channels TTL/DTL compatible DIO
- Capable of driving Opto-22 compatible digital I/O module
- Emulates 8255 PPI mode 0
- Software programmable for inputs /outputs
- Buffer circuit provides the high sinking current capacity

General Description

The AX5214H is a 48 channels (bit) digital inputs and outputs board that plug into IBM™ PC/AT or compatible computer. The board can be used with TTL low-level input/output circuitry or with AX754, AX755, AX756, and AX1416/24 providing isolation for interfacing with high level input and output signals.

The 48 channels are arranged into two separated groups, each group consists of 24 channels DIO. Each group emulates a 8255 PPI chip mode 0 in software. The 24 channels DIO is further divided into three ports with 8 bits per port. This 8-bit port can be configured to function as input or output.

There is an unique feature associated with AX5214H: an interrupt on change of state. This feature frees up the PC to do other activities since there is no need to poll the digital input port for an event to occur.

Specifications

Input and Output

- **Input/Output Lines:** 48
- **Operation Mode:** 8255 Mode 0 compatible
- **Interrupt Options:** Jumper-selectable to level 2~15
- **Input/Output Level:** TTL/DTL compatible
- **Added Pull-up Resistor:** CMOS/DRY CONTACT compatible
- **Electrical Characteristics:**
  VIH : 2V min.
  VIL : 0.8V max.
  IIH : 20μA max. at VI=2.7V
  IIL: -0.2mA max. at VIL=0.4V
  VOH : 2.4V min. at IOH=-3mA
  IOH : -15mA max.
  IOH : 24mA max.

Power Requirement

- **+5VDC:** 1.6A max.

Physical/Environmental

- **I/O Connector:** 50-pin mating ribbon connector
- **Dimensions:** 258 x 99mm
- **Weight:** 280g
- **Relative Humidity:** To 90%, non-condensing

Ordering Information

- **AX5214H**
  48 Bit DIO Board

Screw Terminal Panel

- **AX951A/B** Universal Screw Terminal Panel

Signal Conditioning Panel

- **AX754** 24 Channel Opto-isolated DI Panel
- **AX755** 24 Channel Relay Output & 16 Channel Opto-isolated DI Panel
- **AX756A/B** 24 Channel Relay Actuator Panel
  Note: SSR I/O Panels and Modules are also available, please turn to the "Terminal & Signal Conditioning Family" for more details.

Software Driver

- **AS59099** DOS, Windows® 3.1, Windows® 95/98/NT DLL driver, and device utility (in CD-ROM)
  (Note: for PCI board, DOS and Windows® 3.1 DLL driver are not avaiable
- **AS59080** Including ActiveX control driver, 3rd party drivers (LABTECH, Labview, Dasylab), and OPC server

Note: All specifications are subject to change without notice.